

CMST-CP OVERVIEW

The purpose of the Characterization, Monitoring, and Sensor Technology Crosscutting Program (CMST-CP) is to deliver characterization, monitoring, and sensor technology to DOE sites to support activities under the DOE Office of Waste Management, the DOE Office of Environmental Restoration, and the DOE Office of Nuclear Material and Facility Stabilization. The technologies developed must also be delivered and implemented in time to meet site cleanup schedules.

DOE sites with contaminated areas and facilities and radioactive and hazardous chemical wastes require adequate pre-cleanup characterization, and then monitoring during site/facility cleanup and waste treatment/storage/removal. Also long-term, rugged sensors are needed for monitoring waste disposal sites, contaminated sites and clean sites to ensure they are clean. Without appropriate characterization and monitoring technology, these sites cannot be safely or economically remediated. One major problem is that, with current technology, the cost of characterization and monitoring is unacceptably high for some applications. Another problem is that the technologies needed to do some jobs are not available. The purpose of the CMST-CP is to develop and improve technologies needed for cost-effectively characterizing and monitoring activities across the five DOE Environmental Management Focus Areas.

The CMST-CP works with Site Technology Coordination Groups (STCGs) at DOE field offices and the five Focus Areas to identify technology gaps. These gaps occur when performance specifications or the functional requirements of sites for technologies (from STCG need statements) are not met by commercial or prototype technologies. CMST-CP helps bring technology developers and users together to deliver solutions that satisfy the user needs. The expertise of the CMST-CP Team, with its many contacts at DOE laboratories, other federal agencies, private companies, and universities, is utilized by all DOE sites and numerous non-DOE sites and environmental groups. The CMST-CP primarily funds technology development through Technical Task Plans with DOE laboratories (81%). It promotes collaboration with other federal agencies through Interagency Agreements (IAGs) (5%). Private sector research and development is promoted through Program Research and Development Announcements (PRDAs), Research Opportunity Announcements (ROAs), and the Small Business Innovation Research (SBIR) program (14%).

CMST-CP TEAM

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